MULTIMEDIA UNIVERSITY

STUDENT ID NO

MULTIMEDIA UNIVERSITY

FINAL EXAMINATION

TRIMESTER 2, 2016/2017

BPB2034 – PROGRAMMING FOR BUSINESS APPLICATIONS

(All sections / Groups)

01 MARCH 2017
9.00 a.m. – 11.00 a.m.
(2 Hours)

INSTRUCTIONS TO STUDENTS

1. This question paper consists of 12 pages (including cover page) with 4 questions only.

2. Attempt ALL FOUR questions. All questions carry equal marks and the distribution of the marks for each question is given.

3. Please write all your answer in the question paper itself.

Question 1 (25 Marks)

a) CAB Sdn Bhd is a company which sells used cars. The company gives 0.5% of the car's selling price as incentives to its salespersons. As the manager of the company, you have been asked to monitor incentives given to salespersons.

To make your life easier, you need a simple VBA program which gets basic salary, total sales amount sold by the salesperson and calculates incentives and total salary given to each salesperson.

Apply your problem solving and programming skills to answer the below questions.

i. Determine the input, process and output for the given problem. (6 Marks)

Answer

ii. Draw a flowchart to illustrate the programming algorithm for the given problem. (12 Marks)

Continued...

Answer

Continued...

b) In VBA programming, why do you need to use Option Explicit, General Declaration and Private Declaration? (7 Marks)

Answer

Question 2 (25 Marks)

a) What will be displayed when you run the below visual basic code. Explain the program using a sample input data of your choice. (5 Marks)

```
Private Sub CommandButton1_Click( )

    Dim StudentName(1 to 5) As String

    For i = 1 To 5
    StudentName(i) = InputBox("Enter student Name")
    Cells(i, 1) = StudentName(i)
    Next

End Sub
```

Continued...

Answer

b) What will be displayed when you run the visual basic code given below? Explain each line in the program. (10 Marks)

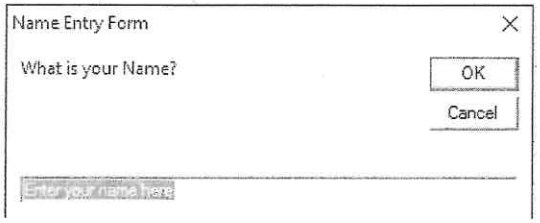
```
Private Sub CommandButton1_Click()
Dim arr(5)

arr(0) = "BPB2034"          'Number as String
arr(1) = "PROGRAMMING FOR BUSINESS APPLICATIONS"    'String
arr(2) = 2                  'Number
arr(3) = 9.00               'Decimal Number
arr(4) = #28/02/2017#  'Date
arr(5) = #2.30 PM#    'Time

msgbox("Value stored in Array index 0 : " & arr(0))
msgbox("Value stored in Array index 1 : " & arr(1))
msgbox("Value stored in Array index 2 : " & arr(2))
msgbox("Value stored in Array index 3 : " & arr(3))
msgbox("Value stored in Array index 4 : " & arr(4))
msgbox("Value stored in Array index 5 : " & arr(5))

End Sub
```

Continued...

Answer

c) Write visual basic code that pop up an input box asking the user to enter user name and displays a welcome message addressing user name in an msgbox. If the user did not enter a name, the program should display "You did not enter your name" in an msgbox. (10 Marks)

Example of input box is shown below:



Answer

Continued...

Question 3 (25 Marks)

Assume that you are a working as a manager in a book shop. Currently the shop does all the billing manually. Since you have learned business programming, you are required to write a simple VBA program to automate the billing process.

The program should request book title, quantity and unit price. To promote the reading, the book shop is offering 10% discount if the total purchase amount is above RM50. You need to add 6% GST for the total purchase amount after the discount.

As you have learned functions in VBA which helps you to divide the problem in to small tasks, you are required to create your function to answer this question.

a) Write a VBA function to calculate the Total purchase amount after discount.

(8 Marks)

Answer

Continued...

b) Write a VBA function to calculate total amount to pay after GST charges.

(8 Marks)

Answer

c) Write the complete VBA program to automate the billing process for the book shop. Make sure you call the two functions created above. (9 Marks)

Answer

Continued...

Question 4 (25 Marks)

A company has taken a new business of collecting parking charge of a parking lot. The manager needs a simple program which displays the parking charge once a button is clicked.

The parking charge is calculated based on the rates shown below:

- Car $2 per hour
- Bus $3 per hour
- Truck $4 per hour

The program should request for the type of vehicle ('c' for car, 'b' for bus, 't' for truck) and the hours a vehicle spent in the parking lot and display the type of vehicle, hours spent , charge per hours and parking charge to pay .

You are required to apply the programming techniques and provide solution to this business problem. The following are expected.

a) Determine input, process and output for this problem. (5 Marks)

Continued...

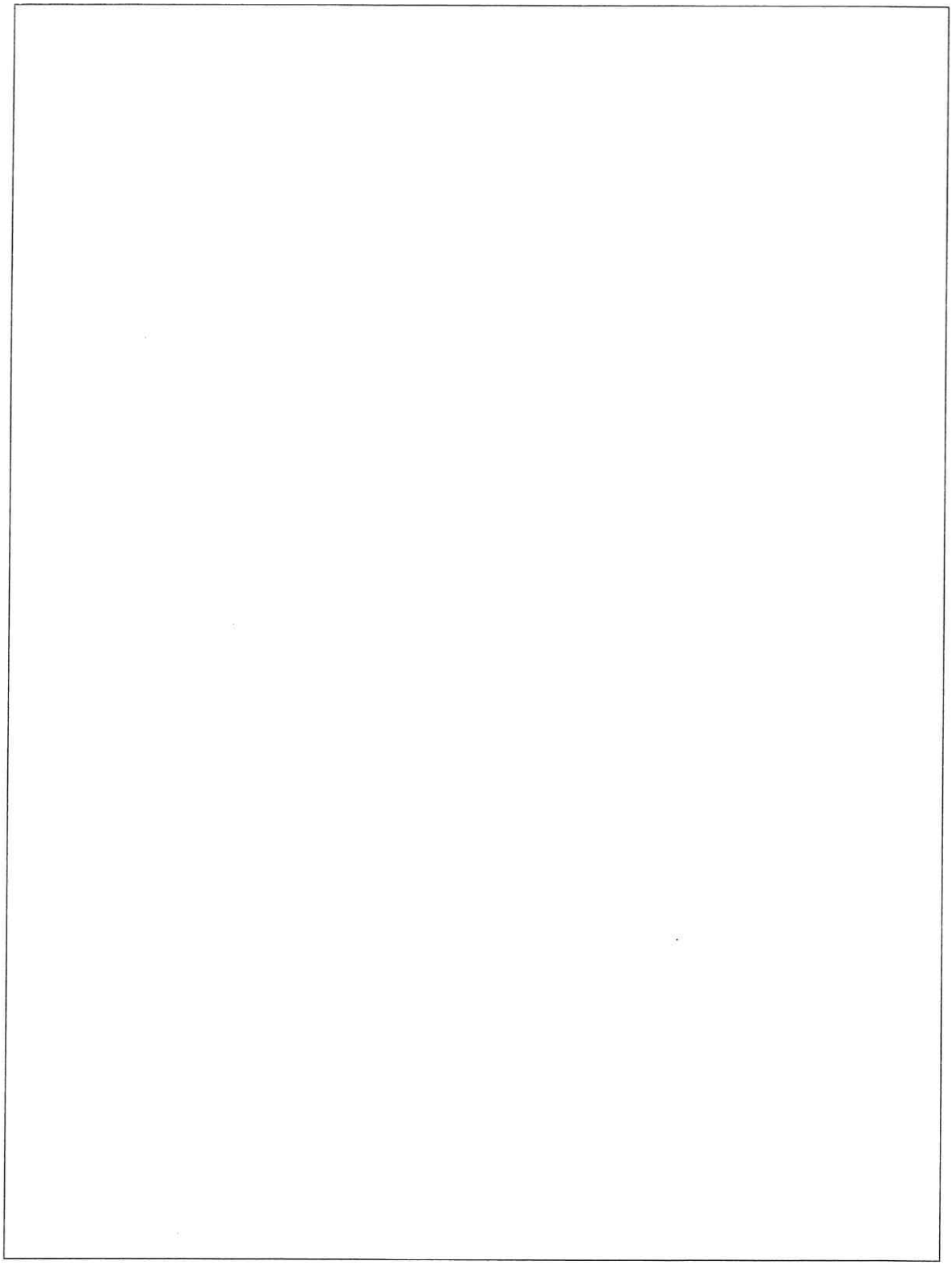
Answer

b) Provide a programming logic to solve this problem in the form of a flowchart.

(10 Marks)

Answer

Continued...



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c) Write a visual basic code whereby if a button is clicked, an input box will appear to ask for inputs and display the results on a message box. (10 Marks)

Answer

End of Page